

A marked-up copy of the original specification is enclosed for the Examiner's reference. Applicants submit that no new matter has been added to the substitute specification not found in the originally filed specification, claims, and drawings.

IN THE CLAIMS

✓ Please cancel claims 1 and 2 without prejudice or disclaimer and enter new claims 12 through 39 as follows:

--12. An LCD panel having a plurality of LCD-modules with a plurality of pixels, a control circuit, and a backlight apparatus, the control circuit in communication with the pixels, the backlight apparatus configured to backlight the control circuit, the LCD panel comprising:

27 a first edge zone and a second edge zone defined on each of the plurality of LCD-modules, the control circuit disposed about the first edge zone of a first LCD-module of the plurality of LCD-modules, the first edge zone interposed between the backlight apparatus and the second edge zone of a second LCD-module, the first edge zone of the first LCD-module spaced apart from the second edge zone of the second LCD-module at a distance configured to accommodate a light device for shadow reduction.

13. The LCD panel of claim 12, wherein the light device is an overlap illuminating element.

14. The LCD panel of claim 13, wherein the overlap illuminating element is configured to illuminate the second edge zone of the second LCD-module to reduce shadows caused by the backlight apparatus backlighting the control circuit disposed about the first edge zone of the first LCD-module.

15. The LCD panel of claim 13, wherein the overlap illuminating element is selected from the group consisting of a micro-LED, an organic LED, an LEP, a cold cathode fluorescent lighting and combinations thereof.

16. The LCD panel of claim 13, wherein the overlap illuminating element is a cold cathode fluorescent lighting.

17. The LCD panel of Claim 13, further comprising an electrical supply in communication with the overlap illuminating element.

18. The LCD panel of claim 17, wherein the electrical supply is a first transparent ribbon conductor.

19. The LCD panel of claim 12, wherein the light device is a light deflector configured to change a direction of light.

20. The LCD panel of claim 19, wherein the light deflector is selected from the group consisting of a film, a microstructure film, a hologram film, a microprism, a Fresnel lens, and combinations thereof.

21. The LCD panel of claim 12, wherein the control circuit is disposed on a transparent carrier material proximate the first edge zone of the first LCD-module.

22. The LCD panel of claim 12, wherein the control circuit is embedded in a transparent matrix.

23. The LCD panel of claim 12, wherein the control circuit is a plurality of control circuits, at least one of the plurality of control circuits disposed on a transparent carrier material proximate the first edge zone of the first LCD-module, and at least another of the plurality of control circuits disposed on another transparent carrier material proximate the first edge zone of the second LCD-module.

24. The LCD panel of claim 12, further comprising a second transparent ribbon conductor, the second transparent ribbon conductor in electrical communication between the control circuit and a control apparatus.

25. The LCD panel of claim 12, further comprising a polarization filter disposed about the pixels.

26. The LCD panel of claim 12, further comprising a display plane, the first and second edge zone of the LCD-modules substantially coplanar in the display plane.

27. The LCD panel of claim 12, wherein at least one of the LCD-modules is substantially square-shaped, the first and second edge zones disposed on opposite sides of the at least one square-shaped LCD-module.

28. The LCD panel of claim 12, wherein at least one of the LCD-modules is substantially rectangular-shaped, the first and second edge zones disposed on opposite sides of the at least one rectangular-shaped LCD-module.

29. An LCD panel having at least two LCD-modules disposed coplanar in a plane with a plurality of pixels therein, at least one control circuit, and a backlight apparatus, the LCD panel comprising:

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a first edge zone and a second edge zone defined on each of the LCD-modules, the first edge zone of a first LCD-module spaced apart from the second edge zone of a second LCD-module such that a lighting device is interposable between the first edge zone of the first LCD-module spaced apart from the second edge zone of the second LCD-module,

wherein the at least one control circuit is disposed proximate the first edge zone in a transparent matrix, the backlight apparatus configured to backlight the at least one control circuit, the lighting device configured to redirect light to reduce shadowing caused by the backlight apparatus in cooperation with the at least one control circuit.

30. The LCD panel of claim 29, wherein the lighting device is an overlap illuminating element.

31. The LCD panel of claim 30, wherein the overlap illuminating element is selected from the group consisting of a micro-LED, an organic LED, an LEP, a cold cathode fluorescent lighting and combinations thereof.

32. The LCD panel of claim 30, wherein the overlap illuminating element is a cold cathode fluorescent lighting.

33. The LCD panel of claim 29, wherein the lighting device is a light deflector configured to change a direction of light.

34. The LCD panel of claim 33, wherein the light deflector is selected from the group consisting of a film, a microstructure film, a hologram film, a microprism, a Fresnel lens, and combinations thereof.

35. The LCD panel of claim 29, further comprising a display plane, the first and second edge zone of the LCD-modules substantially coplanar in the display plane.

36. An LCD panel having a backlight apparatus configured to backlight a control circuit for controlling picture elements, the LCD panel comprising:

a first LCD-module having a first edge zone and a second edge zone;

a second LCD-module having a complementary first edge zone and a complementary second edge zone, the first edge zone disposed proximate the complementary second edge zone;

a light device selected from the group consisting of an illuminating element, a light deflector and combinations thereof, the light device operatively interposed proximate the first edge zone and the complementary second edge zone, the light device configured to reduce shadowing caused by the backlight apparatus.

37. The LCD panel of claim 36, wherein the illuminating element is selected from the group consisting of a micro-LED, an organic LED, an LEP, a cold cathode fluorescent lighting and combinations thereof.

38. The LCD panel of claim 36, wherein the light deflector is selected from the group consisting of a film, a microstructure film, a hologram film, a microprism, a Fresnel lens, and combinations thereof.

39. The LCD panel of Claim 36, further comprising a plurality of first and second LCD-modules respectively having a plurality of first and second edge zones and a plurality of complementary first and second edge zones, a plurality of light devices operatively interposed proximate the plurality of first edge zones and complementary second edge zones and the